INT. COMM. HEAT MASS TRANSFER 0735-1933/88 $3.00 + .00
Vol. 15, pp. 815-820, 1988 ©Pergamon Press plc Printed in the United States

LIST OF CONTENTS FOR VOLUME 15, 1988

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER

1988 Volume 15, Number 1 January-February

Contents

R.S. Parikh and R. Mahalingam 1 Laminar tube flow heat transfer in non-Newtonian fluids under arbitrary wall heat flux

J.Y. Jang and W.J. Chang 17 Buoyancy-induced inclined boundary layer flow in a porous medium resulting from combined heat and mass buoyancy effects

R.V. Arimilli and S.P. Ketkar 31 Radiation heat transfer in enclosures with discrete heat sources

H. Agaras, R.J. Aguerre and J.F. Gabitto 41 Solution of moving boundary problems by coordinate transformations

W. Shyy and J.T. Dakin 51 Three-dimensional natural convection in a high-pressure mercury discharge lamp

B.H. Chen and W.H. Huang 59 Performance-evaluation criteria for enhanced heat-transfer surfaces

H. Kadete 73 The dependence on heat-transfer-surface-temperature of the enhancement of heat transfer by corona wind

S.M. Sami and T. Duong 81 Numerical prediction of frost formation on cooled heat exchangers

H.C. Chai 95 A simple pressure drop correlation equation for low finned tube cross-flow heat exchangers

A.K. Chakraborty and H.P. Mazumdar 103 Some remarks on the spectra of stably stratified turbulent shear flow

R.N. Hills and P.H. Roberts 113 On the use of Fick's law in regions of mixed phase

J.V. Vilemas and V.M. Simonis 121 The effect of temperature factor on the transition from partially to fully rough flow conditions

INDEXED IN Current Contents, Eng. Ind. Monthly and Author Ind., Energy Res. Abstr., EDB

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER

1988 Volume 15, Number 2 March-April

Contents

J. Orozco and R. Stellman 125 Oscillation of a liquid-vapor interface during flow film boiling

B. Gebhart and N. Wright 141 Boiling enhancement on micro-configured surfaces

S.G. Ravikumaur, K.N. Seetharamu and P.A.A. Narayana 151 Finite element analysis of shell and tube heat exchanger

V.D. Murty 165 A finite element solution of double diffusive convection

W.S. Fu and F.C. Duh 179 Combined heat and mass transfer in natural convection on a vertical flat plate

F.L. Bello-Ochende 193 A heat function formulation for thermal convection in a square cavity

S.B. Sathe and T.W. Tong 203 Measurements of natural convection in partially porous rectangular enclosures of aspect ratio 5

T.-Y. Wang and C. Kleinstreuer 213 Forced convection heat transfer between permeable rotating slender cylinders and power-law fluids

H.M. Joshi 227 Transient effects in natural convection cooling of vertical parallel plates

B.D. Knodel and D.M. France 239 Ice-water slurry flow in a circular pipe

J.L. Baliño, F. Bonetto and J. Converti 247 Measurement of heat transfer enhancement in forced convection due to hydrogen bubbles produced by electrolysis

ANNOUNCEMENT 255 Multiphase Flow and Heat Transfer - A Short Course for Engineers

ANNOUNCEMENT 256 1988 International Conference on Heat Transfer in Energy Conservation

INDEXED IN Current Contents, Eng. Ind. Monthly and Author Ind., Energy Res. Abstr., EDB

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER

1988 Volume 15, Number 3 May-June

Contents

N.S. Liao, C.C. Wang and C.L. Tien 257 Analysis of transient flow surge phenomena in a single-tube condenser

N. Brauner, D.M. Maron and H. Meyerson 269 The effect of absorbate concentration level in hygroscopic condensation

S.M. Sami 281 An improved numerical model for annular two-phase flow with liquid entrainment

M.L. Ng, J.P. Hartnett and R.Y.Z. Hu 293 Natural convection to horizontal wires - the conduction limit

A. Khalilollahi and B. Sammakia 303 Transient natural convection near a uniform flux surface with appreciable heat capacity

D.B. Ingham and I. Pop 315 A note on free convection flow in a corner

W.-S. Fu and W.-J. Shieh 323 A penalty finite element method for natural convection heat transfer in a partially divided enclosure

W.M. Yan and T.F. Lin 333 Combined heat and mass transfer in laminar forced convection channel flows

A. Pantokratoras 345 Calculation of a turbulent jet discharged downward

C.Y. Lam 355 An eddy viscosity turbulence model

C.-Y. Wu 365 Integral equation solution for hyperbolic heat conduction with surface radiation

C.Y. Liu and W.K. Chan 375 Note on mixed convection flow about slender bodies of revolution

INDEXED IN Current Contents, Eng. Ind. Monthly and Author Ind., Energy Res. Abstr., EDB

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER

1988 Volume 15, Number 4 July-August

Contents

379 Professor James W. Westwater

J.W. Westwater 381 Boiling heat transfer

J.H. Lienhard 401 Things we don't know about boiling heat transfer: 1988

K.J. Bell 429 Two-phase flow regime considerations in condenser and vaporizer design

J.W. Rose 449 Some aspects of condensation heat transfer theory

R.L. Webb 475 Enhancement of film condensation

A.E. Bergles 509 High flux boiling applied to micro electronics thermal control

Y.Y. Hsu and E.-S. Kim 533 Transition boiling

W.M. Rohsenow 559 Post dryout heat transfer prediction method

INDEXED IN Current Contents, Eng. Ind. Monthly and Author Ind., Energy Res. Abstr., EDB

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER

1988 Volume 15, Number 5 September-October

Contents

A. Bejan 571 Research into the origins of engineering thermodynamics

G. Pagliarini 581 Effects of axial conduction in the wall and the fluid on conjugate heat transfer in thick-walled circular tubes

D. Poulikakos and T.L. Spatz 593 Non-Newtonian natural convection at a melting front in a permeable solid matrix

H.-T. Chen and C.-K. Chen 605 Natural convection of a non-Newtonian fluid about a horizontal cylinder and a sphere in a porous medium

S.K. Roy and S. Sengupta 615 A numerical study of natural convection heat transfer in a vertically eccentric spherical annulus

C.Y. Liu and W.M. Ying 627 Compact air-operated DOP aerosol generators

T.H. Hwang and M.K. Moallemi 635 Heat transfer of evaporating droplets in low pressure systems

Y.M. Yang and C.C. Chou 645 Prediction of pool boiling critical heat flux on binary mixture using phase equilibrium data

S.C. Saxena and R. Vadivel 657 Heat transfer from a tube bundle in a bubble column

V.G. Dovi, O. Paladino and H. Preisig 669 The importance of correct boundary conditions in the estimation of diffusion coefficients from mass sorption experiments

V.K. Nangia, N.S. Grewal and B.S. Rao 681 Normal total emittance of limestone

C.T. Hsu and P. Cheng 689 Closure schemes of the macroscopic energy equation for convective heat transfer in porous media

INDEXED IN Current Contents, Eng. Ind. Monthly and Author Ind., Energy Res. Abstr., EDB

INTERNATIONAL COMMUNICATIONS IN HEAT AND MASS TRANSFER

1988 Volume 15, Number 6 November-December

Contents

A.J. Ghajar and M.Y. Azar — 705 Empirical correlations for friction factor in drag-reducing turbulent pipe flows

J. Orozco and D. Dix — 719 Oscillation of a liquid-vapor interface: experimental observations

M.-H. Chun — 731 A model for vapor bubble growth under variable liquid pressure fields

M.-H. Chun and J.-G. Oh — 741 A new method of two-phase pressure drop calculation with a correction factor to compensate expected errors

K. Kapoor and Y. Jaluria — 751 An experimental study of the generation and characteristics of a two-layer thermally stable environment

N. Ashgriz, C.H. Chiang and S.K. Aggarwal — 765 Flame structure in fuel rich mono-dispersed sprays

N.N. Barthakur — 773 Impact of air ions on mass transfer from liquids

A.M. Thornhill, E.K. Glakpe and D. Agonafer — 785 Prediction of natural convection in horizontal annular enclosures at high Rayleigh numbers

B.B. Mikic — 799 On destabilization of shear flows: concept of admissible system perturbations

Announcement — 813 Two-Phase Flow Workshop: Multiphase flow and heat transfer bases and applications

Announcement — 814 A.L. London Symposium

815 LIST OF CONTENTS FOR VOLUME 15, 1988

821 AUTHOR INDEX TO VOLUME 15, 1988

INDEXED IN Current Contents, Eng. Ind. Monthly and Author Ind., Energy Res. Abstr., EDB

ISSN 0735-1933
IHMTDL 15(2) 125-256 (1988)
(208)